FIGURE 1
SYSTEM/DEVICE BLOCK DIAGRAM
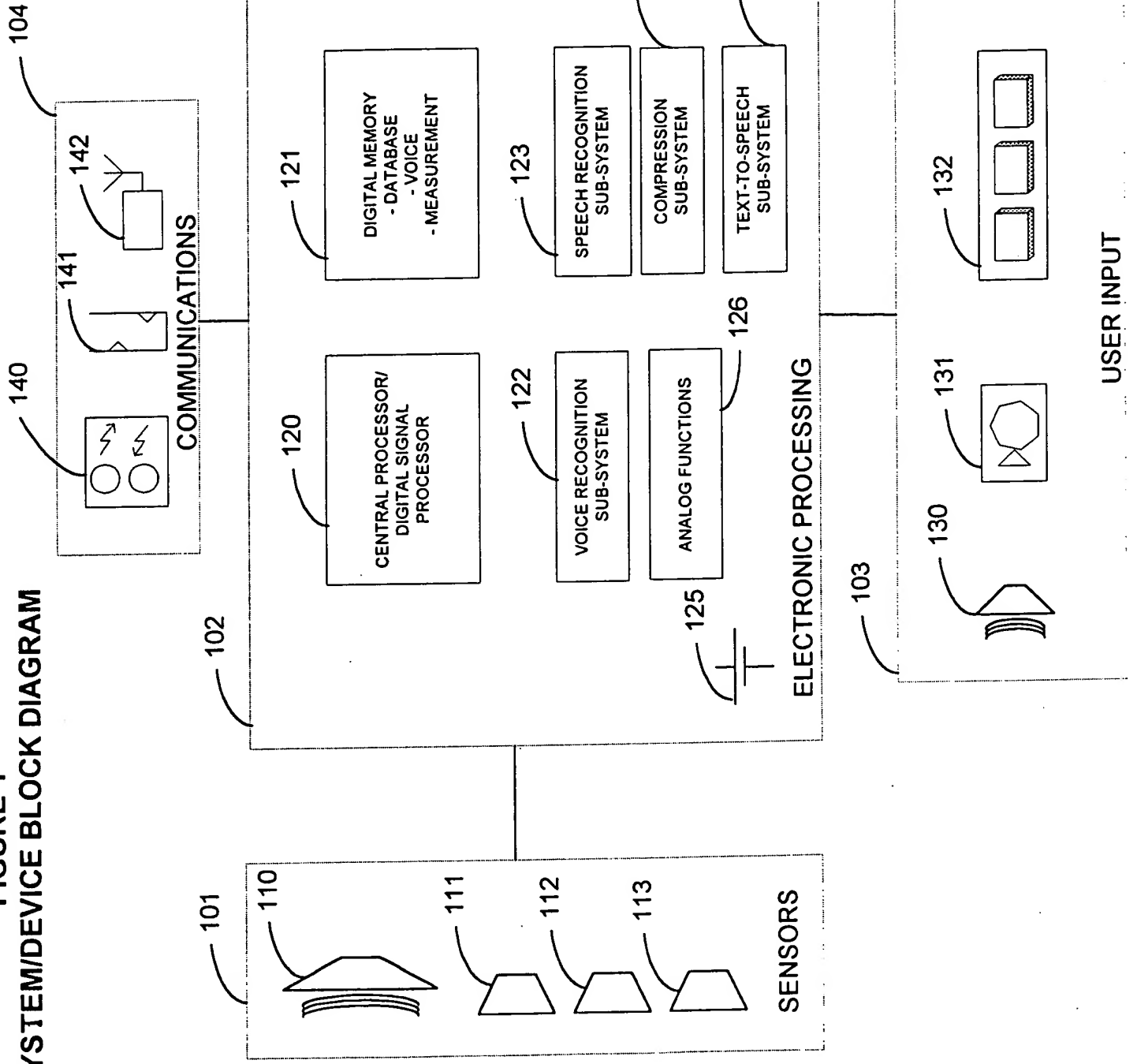

105 OUTPUT/ DISPLAY
- 150
- 151
- 152
- 153

104 COMMUNICATIONS
- 140
- 141
- 142

102 ELECTRONIC PROCESSING

- 120 CENTRAL PROCESSOR/ DIGITAL SIGNAL PROCESSOR
- 121 DIGITAL MEMORY
  - DATABASE
  - VOICE
  - MEASUREMENT
- 122 VOICE RECOGNITION SUB-SYSTEM
- 123 SPEECH RECOGNITION SUB-SYSTEM
- 124 COMPRESSION SUB-SYSTEM
- 125
- 126 ANALOG FUNCTIONS
- 127 TEXT-TO-SPEECH SUB-SYSTEM

103 USER INPUT
- 130
- 131
- 132

101 SENSORS
- 110
- 111
- 112
- 113

FIGURE 2
AUSCULTATION ALTERNATE-SOURCE AUDIO MIXER

201

202

205

206

MIXER/MULTIPLEXER
- DIGITAL OR ANALOG
DOMAIN

203

207

**TEXT-TO-SPEECH
PROCESSOR**

**SOUND SOURCE
(NON-AUSCULTATION)** 204
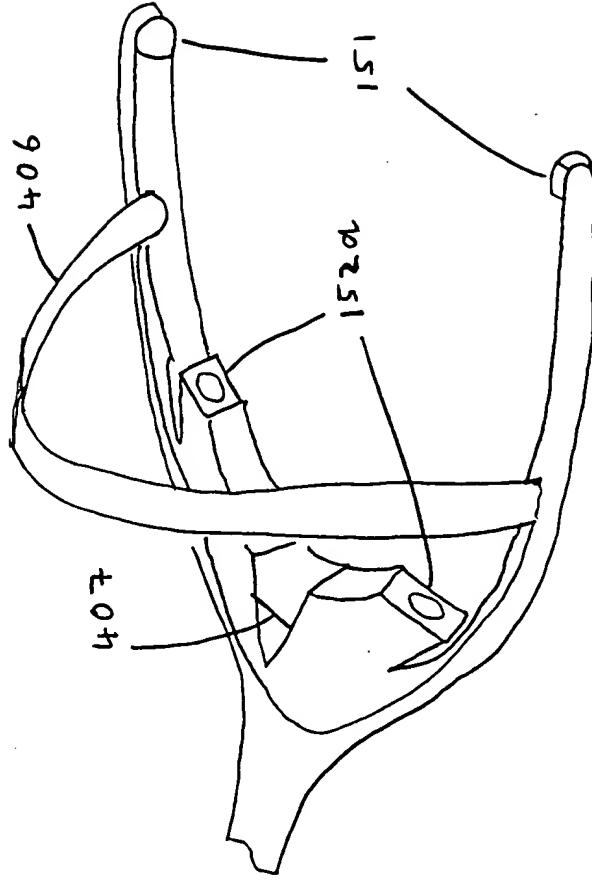
FIGURE 3

FRONT VIEW

SIDE VIEW
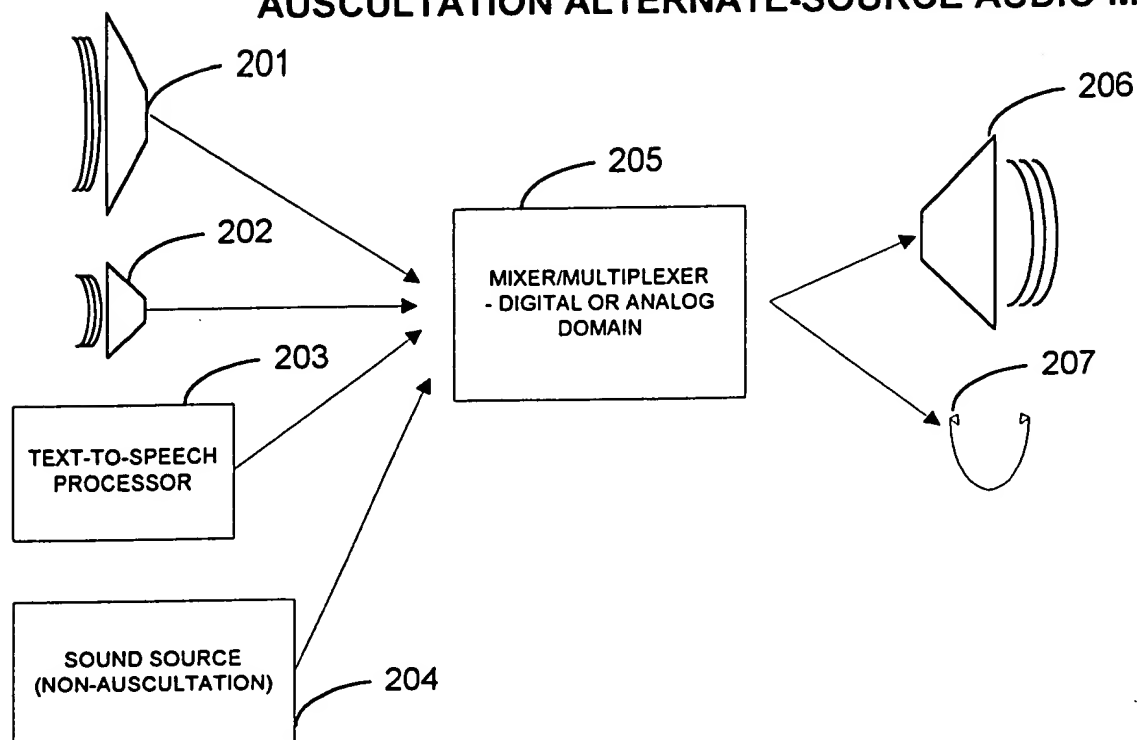
FIGURE 4

FIGURE 5
COMMUNICATIONS AND DATA ACCESS METHODS

Internet/Intranet Digital Communications network — 607

613 — Remote Patient Information Filtering System

614 — Remote Computer System

615 — Pharmaceutical Database

616 — Patient Database

617 — Product Database

618 — Patient Care Protocol Database

619 — Medical Research Database

620 — Medical Product Manufacturers Website

608 — Base Station, Communications Hub, wireless digital communications base, cellphone base station

609 — User Identification and Security System

610 — Custom Web Page for Output

611 — Physician/Nurse's email access

612 — Patient/Consumer's email access

Device Communication with and/or via handheld computer

602 — Handheld Computer / Database

601a

603 — Cellphone/ 2-way pager

601b

Device communication with and/or via cellular telephone

621 — Printer

601c — Device communication using built-in wireless means

601e

605 — Remote Medical Professional

606 — Telephone network

Device communication via telephone network or Internet

604 — Telephone System Interface

601d